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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/798,015	03/11/2004	Takao Tsuda	9948-8US (PAA-278)	5897	
570 DANITCH SC	570 7590 01/16/2008 PANITCH SCHWARZE BELISARIO & NADEL LLP			EXAMINER	
ONE COMMERCE SQUARE			KOCZO JR, MICHAEL		
2005 MARKE PHILADELPH	T STREET, SUITE 2200 HA. PA 19103		ART UNIT	PAPER NUMBER	
			3746		
			MAIL DATE	DELIVERY MODE	
			01/16/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
		10/798,015	TSUDA ET AL.				
•	Office Action Summary	Examiner	Art Unit				
		Michael Koczo, Jr.	3746				
Period fo	The MAILING DATE of this communication app	ears on the cover sheet with	the correspondence address				
A SH WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAnsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICA 66(a). In no event, however, may a reply rill apply and will expire SIX (6) MONTH cause the application to become ABAN	ATION. y be timely filed S from the mailing date of this communication. IDONED (35 U.S.C. § 133).				
Status	·						
1)⊠	Responsive to communication(s) filed on 25 Oct	<u>ctober 2007</u> .					
,	his action is FINAL. 2b) This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
5) □ 6) ⊠ 7) ⊠ 8) □ Applicati	Claim(s) 8-10 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 8-10 is/are rejected. Claim(s) 8 is/are objected to. Claim(s) are subject to restriction and/or on Papers The specification is objected to by the Examine The drawing(s) filed on is/are: a) access	vn from consideration. relection requirement.	the Examiner.				
,	Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Ex	drawing(s) be held in abeyance ion is required if the drawing(s)	e. See 37 CFR 1.85(a). is objected to. See 37 CFR 1.121(d).				
Priority u	ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) Notice 3) Information	t(s) se of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	Paper No(s)/N	nmary (PTO-413) Mail Date rmal Patent Application				

DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of the species of figure 1 is acknowledged.

Claim Objections

Claim 8 is objected to because of the following informalities: in line 5, "cooing" should read --cooling--. Appropriate correction is required.

Claim Rejections - 35 USC § 112

Claims 8 to 10 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. On page 4, lines 13 and 14 state that "the liquid flows into or out of the end-openings 1a and 1b by the difference of the pressure". Yet, lines 21 and 22 state that "the end-openings 1a and 1b are sealed with the plugs 2 and 2." How can fluid flow through the end-openings if they are sealed with plugs? The plugs would appear to render the device as inoperative to pump fluid. This contradiction would impose an undue burden on one of ordinary skill in the art to make and use the invention.

Applicant argues that it would be readily apparent to one of ordinary skill in the art that the plugs must be removed from the end-openings in order to allow liquid to flow out of the openings. This is contradicted by the specification and claims which recite that the pressure

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vessel has end-openings for <u>hermetically</u> holding a liquid therein, i.e. the end-openings are sealed (see page 4, line 5, and claim 8, line 2).

If the plugs are removed, what would cause the liquid flow from one of the end-openings to another of the end-openings (claim 8, lines 2 and 3)?

Claims 8 to 10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Because the claims are based on a non-enabling disclosure, the scope thereof cannot be clearly ascertained.

Claim Rejections - 35 USC § 102

Claims 8 and 10, as understood, are rejected under 35 U.S.C. 102(b) as being anticipated by Bowen et al (US 3,195,806). Bowen et al disclose a pump having a pressure vessel (coil 15) for holding a liquid therein. The coil is immersed in an air bath and is heated or cooled in order to cause pumping to occur due to the thermal expansion of the pressure vessel and/or the fluid therein. Reciting that the pump is for pumping a liquid is merely a recitation of the intended use of the pump. The pump of Bowen et al is clearly capable of pumping a liquid. That is, since the coil 15 is an electrical conductor and therefore metallic, it would expand or contract depending on its temperature change.

Claim Rejections - 35 USC § 103

Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bowen et al. To form the coil 15 of Bowen et al of the dimensions as recited is deemed to be a matter of design choice. No unobvious or unexpected result is obtained by these dimensions.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry relating to patent applications in general should be directed to the Patent Assistance Center at 1-800-786-9199.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Koczo, Jr. whose telephone number is 571-272-4830. The examiner can normally be reached on M-Th; 7:00-3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Devon C. Kramer can be reached at 571-272-7118. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Michael Koczo, Jr. Primary Examiner

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